

PROPERTY	TEST METHOD	SI VALUE	U.S. VALUE
MECHANICAL			
Density	ASTM D 3574, Test A	5.3 kg/m ³	0.34 lb/ft ³
Load Deflection At 25% Compression	Boeing BMS 8-300	89 N/323 cm ²	20 lb/50 in ²
Compression Set At 50% Deflection	ASTM D 3574, Test D	< 30%	< 30%
Flexibility	Boeing BMS 8-300	No creasing or tearing	No creasing or tearing
THERMAL			
Thermal Conductivity (k)	ASTM C 518 at mean temperature of 24°C (75°F)	0.049 W/(m·K)	0.34 (Btu·in)/(hr·ft ² ·°F)
Continuous Use Temperature	Recommended maximum	200°C	400°F
FLAMMABILITY			
Oxygen Index	ASTM D 2863	30%	30%
Vertical Burn:	FAR §25.853(a), Appendix F, Part I, (a)(1)(i)		
After flame time		0 seconds	0 seconds
Burn length		38 mm	1.5 inches
Dripping		None	None
Smoke Emission:	FAR §25.853(d), Appendix F, Part V		
D _s at 4.0 minutes		3	3
Toxic Gas Generation:	Boeing BSS 7239, flaming mode		
CO		141 ppm	141 ppm
HCN		Not detected	Not detected
HF		Not detected	Not detected
HCl		Not detected	Not detected
SO ₂		Not detected	Not detected
NO _x		Not detected	Not detected
AGING			
Humid Aging:	ASTM C 518 and D 3574, Test C after 1,000 hours at 70°C (158°F) and 95-98% relative humidity		
Thermal conductivity change		- 2%	- 2%
50% CFD retained		80%	80%
Weight gain		0%	0%
Dry Oven Aging:	Boeing BMS 8-300, ASTM D 3574, Test D and FAR §25.853(a), Appendix F, Part I, (a)(1)(i) after aging at 70°C (158°F) for 7 days in accordance with ASTM D 573		
Load deflection change		- 3%	- 3%
Compression set change		+ 5%	+ 5%
Volume shrinkage		< 3%	< 3%
Vertical Burn - After flame time		0 seconds	0 seconds
Vertical Burn - Burn length		56 mm	2.2 inches
Vertical Burn - Dripping		None	None
ACOUSTICAL			

ACOUSTICAL ABSORPTION COEFFICIENTS FOR FLEXED FOAM
(metric sabins/m² or sabins/ft²)

ASTM C 423 and E 795, Type A Mounting

Thickness		Frequency (Hz)						NRC
		125	250	500	1000	2000	4000	
25 mm	(1 inch)	0.07	0.18	0.61	0.99	1.03	0.86	0.70

**The above are typical values subject to normal manufacturing variation.*

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